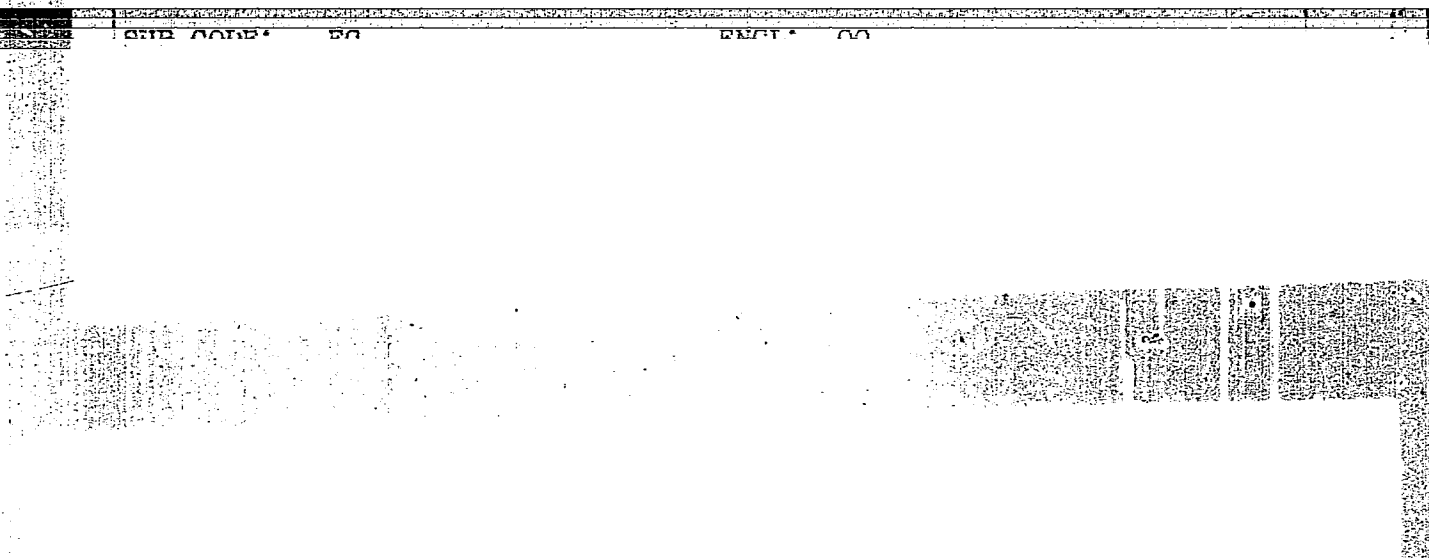


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distortion in ionospheric scatter

CITED SOURCE

SIOLSK, IZ, CORRECTION

TOPIC TAGS: ionospheric scatter, bandwidth, correlation coefficient

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L 19651-63

EM(1)/BDS/EEC-2/ES(v)

AFTC/ASD/AFMDC/ESD-3/APGC Pe-4/

PI-4/Po-4/Pq-4 RB/PT-2

ACCESSION NR: AR3007001

S/0058/63/000/008/H033/H033

SOURCE: RZh. Fizika, Abs. 8Zh216

AUTHOR: Vetshev, Zh. N.

TITLE: Measurement of the phase difference fluctuations of scattered radio waves received by separated antennas

CITED SOURCE: Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te,
vy*p. 41, 1962, 103-108

TOPIC TAGS: Radio signal , phase difference measurement, 21 Mc band

TRANSLATION: Apparatus and a procedure are described for the measurement of the fluctuations in the phase difference of 21 Mc signals, carried out in April--May 1960 along a path of ionospheric scattering 1340 kilometers long with two-channel reception using two half-wave dipoles separated in a direction perpendicular to the

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ACCESSION NR: AR3007001

path by 2λ , and situated 20 meters above the earth's surface. The signals from the outputs of both channel receivers were fed to a phase-meter device and recorded. The dispersion of the fluctuations and the integral distribution of the phase difference were determined from the records. The over-all error in the measurement of the phase difference did not exceed 5%. The intensity of the fluctuations of the phase differences has a daily variation with maximum in morning hours, and is determined by the degree of ionization of the ionosphere. The instantaneous values of the fluctuations have a normal distribution. The dispersion of the arrival angles lies within $1-2.5^\circ$. I. P.

DATE ACQ: 06Sep63

SUB CODE: PH, CC

ENCL: 00

Card 2/2

AUTHOR: Vetshev, Zh. M.

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L 19650-63

EW(1)/EW(k)/BDS/EEC-2/ES(v)

AFFTC/ASD/AFMDC/ESD-3/APGC/

SSD Pz-4/Pe-4/Pl-4/Pl-4 RB/PT-2/JHB/GN

ACCESSION NR: AR3007002

S/0058/63/000/008/H033/H034

SOURCE: RZh. Fizika, Abs. 8Zh217

AUTHOR: Vetshev, Zh. N.; Bocharov, V. I.; Afonina, L. Ya.

TITLE: Experimental investigation of statistical properties of a signal in ionospheric propagation at frequencies above the limiting reflection frequency

CITED SOURCE: Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te, vy*p. 41, 1962, 109-119

TOPIC TAGS: Radio signal , statistical property, ionospheric propagation, reflection, meteor reflection

TRANSLATION: A study was made of the statistical characteristics of the amplitude of a signal scattered at 21 Mc (1340 kilometers) and at 20.46 Mc (1560 kilometers). For spatially-diverse reception, the

Card 1/3

L 19650-63

ACCESSION NR: AR3007002

base of antenna separation was varied in a direction perpendicular to the path. The distribution of the amplitudes of the autocorrelation functions and of the mutual-correlation functions of the diversity reception were plotted by processing of the recorded signals. Electronic computation was used to determine the correlation function along with a method of successive approximation. An analysis of 150 sessions (lasting approximately 1 minute) showed no dependence of the distribution on the frequency and on the length of the path, 25% of the distribution were of the Rayleigh type, 53% of the generalized Rayleigh type, and 22% of the Gaussian type. Thus, in 75% of the cases a coherent component was observed in the scattered signal. The spatial correlation radius for 21 Mc was $\sim 3\lambda$, while for 46 Mc it was $\sim 6\lambda$. These radii turned out to be of the same order as the dimensions of the effective scattering inhomogeneities in the ionosphere. An analysis of the correlation functions (under the assumption that the change in the volume of the inhomogeneities is due to regular drift) has shown that the average velocity of ionospheric

Card 2/3

L 19650-63

ACCESSION NR: AR3007002

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drift is ~140, 110, and ~47 m/sec for 21, 20 and 46 Mc, respectively. These data agree with the results of other drift measurements. The statistics of the sharp bursts contained in the scattered signal were analyzed. The most frequent bursts had a duration of 0.2 second. It was established that the hourly number of strong bursts exceeds this number for meteor reflections. This indicates that the formation of scattering configurations of ionization is connected not only with meteor activity, but also with other mechanisms (atmospheric; ionization of polar aurora). Great attention was paid to the methodological aspect of the research (estimate of statistical error, data reduction procedure, etc.). S. Mikrotan.

DATE ACQ: 06Sep63

SUB CODE: PH, CC

ENCL: 00

Card 3/3

VETSHEVA, V.F., dotsent; ZAYTSEVA, N.N., starshiy prepodavatel'

Comparative study of the standardized and the operating
standard based on the inventory data of lumber at the
Tayturka LDK. Trudy STI 34:16-24 '63.

Studying the quantitative and qualitative yield of lumber
from Siberian pine logs in the Far East. Ibid.:25-33
(MIRA 17:2)

VETSHEVA, V. F.

VETSHEVA, V. F.: "Investigation of tolerances and allowances in sawmill operation in connection with the precision of operation of the basic tools". Leningrad, 1955. Min Higher Education USSR. Leningrad Order of Lenin Forestry Engineering Inst imeni Academician S. M. Kirov. (Dissertations for the Degree of Candidate of Technical Sciences.)

So: Knizhnaya letopis' No. 49, 3 December 1955. Moscow.

USOV, I.I.; VETSHTEYN, E.K.

Case of combined perforated ulcer of the duodenum and acute
appendicitis. Khirurgia 35 no.3:111-112 Mr '59.

(MIRA 12:8)

1. Iz khirurgicheskogo otdeleniya (nach. I.I.Utesov) Tsentral'-
noy bol'nitsy (nach. I.A.Avrov) Pavlodara Kazakhskoy SSR.
Nauchnyy rukovoditel' - zav.kafedroy gosital'noy khirurgii
Kuybyshevskogo meditsinskogo instituta prof. A.M.Aminev.

(PEPTIC ULCER, perf.

with acute appendicitis (Rus))

(APPENDICITIS, compl.

perforated duodenal ulcer (Rus))

VETSHTSYN, L.; SHURAYEV, V.

Aiming for the world's record. Metallurg 10 no.3:23 Mr '65.
(MIRA 18:5)

1. Korrespondent gazety "Magnitogorskiy rabochiy" (for Vetshtsyn).
2. Neshtatnyy korrespondent zhurnala "Metallurg" (for Shurayev).

VETSHTYIN, L.; SHURAYEV, V.

Magnitogorsk metallurgical combine. Metallurg. 9 no.10:5-
0 '64 (MIRA 18:1)

1. Neshtatnyy korrespondent zhurnala "Metallurg".

VETSHTeyN, V.Ye.; DEMIDENKO, S.G.; LECHEKHLEB, V.R.

Mass-spectrometric ion source for isotopic analysis of micro-quantities of lead. Prib. i tekhn. eksp. 6 no.2:130-131
Mr-Apr '61. (MIRA 14:9)

1. Institut fizicheskoy khimii AN USSR.
(Ion sources) (Lead--Analysis)

DEMIDENKO, S.G.; VETSHTEYN, V. Ye.; LECHIZHINSKY, V.R.

Evaporator for the mass spectrometric analysis of samples in
solid phase. Metod. spr. abs. vozr. geol. obr. no. 6:11-23 '64
(MIRA 18:2)

BURKSER, E.S. [Burkser, E.S.]; ALEKSEYEVA, Ye.N. [Alekseieva, K.M.];
VETSHTYIN, V.Ye.; GOL'DENFELD, I.V.; DAVYDYUK, L.A. [Davydyuk, L.O.];
DEMIDENKO, S.G. [Demydenko, S.H.]; YELISEYEVA, G.D. [Ieliseieva, H.D.];
LECHEKHLEB, V.R. [Lechekhlid, V.R.]; SHCHERBAK, M.P.

Accurate determination of the absolute age of rocks by the lead
method. Geol.zhur. 21 no.5:48-57 '61. (MIRA 14:10)

1. Institut geologicheskikh nauk AN USSR.
(Geological time) (Mineralogy)

VETSHTEYN, V.Ye.; DEMIDENKO, S.G.

Ion receiver for a double-beam mass spectrometer for an isotopic analysis of nitrogen and oxygen. Prib.1 tekhn.eksp. 6 no.5:185-186 S-0 '61. (MIRA 14:10)

1. Institut fizicheskoy khimii AN USSR.
(Mass spectrometry--Equipment and supplies)

PUNCOCHAR, Z., inz.; HRBEK, A.; CHVATAL, Vlad., inz.; VETSIKA, A.; KECLIK, V.;
JENICEK, L.; POKORNY, A.; HOREJS, S.; ZIDEK, inz.

Information on metallurgy. Hst listy 16 no.6:445-455 Je '61.

FILIPOV, F., prof.; VASILEV, N.; VETSKA, P.

Bone tumors of the skull. Khirurgiia, Sofia 14 no.2/3:294-296 '61.

1. Klinika po nevrokhirurgii pri Instituta za spetsializatsiia i
usuvurshenstvuvane na lekarite.

(SKULL neopl)

USUNOV, G.; IOZHINOV, S.; GEORGIEV, I.; PETROV, P., IANKOV, Ia.; SAKHATCHIEVA, L.;
VETSHIA, P.

Symptomatic epilepsy in supra- and sub-tentorial tumors of the brain.
Suvrem. med., Sofia 8 no.11:51-59 1957.

(BRAIN NEOPLASMS, complications,
supratentorial & subtentorial, causing epilepsy (Bul))
(EPILEPSY, etiol. & pathogen.
subtentorial & supratentorial tumors (Bul))

VETSKALNIYA, O.F.

27351: SOLOVYANIN, V.M. I VETSKALNIYA, O.F. - Klinicheskoye znachenie sulenovo-osadnoy reaktsii kak metoda funktsional'nogo issledovaniya pecheni. Klinich. Meditsina, 1949, No.8, s. 83-85.

S0: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948

VETSKHVADE, G.
USSR/Physical Chemistry - Molecule, Chemical Bond.

B-4

Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 61

Author : G. Vetskhvadze

Inst : Tiflis University, Academy of Sciences of USSR.

Title : Quantum-Mechanical Study of Pure Ion State of BeH .

Orig Pub : Tr. Tbilissk. un-ta, 1957, 62, 1-10

Abstract : The energy of the system Be^2+H^- in the pure ion state was computed depending on the internuclear distance. The wave function of the system was taken as a linear combination of products of s-orbits of Be and H with one variation parameter of the scale in accordance with the symmetrization scheme of coordinate wave functions of Fok (Fok V.A., Dokl. AN SSSR, 1950, 73, No 4; Zh. eksperimen. i teor. fiziki, 1940, 10, No 9-10, 961). All the integrals with the exception of the interchange one were reduced to those tabulated

Card 1/2

USSR/Physical Chemistry - Molecule, Chemical Bond.

B-4

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 61

earlier. The computed dissociation energy and equilibrium distance in Be^{2+}H^- are equal to 8.88 ev and 2.46 at. un. correspondingly.

Card 2/2

VETSNER, A.M., kand.med.nauk

Correlation of neurological symptoms and mental disorder in
vascular diseases and atrophic processes in the cerebral
cortex. Trudy Gos.nauch-issl.inst.psikh. 25:131-156 '61.

(MIRA 15:12)

1. Klinika sosudistyykh psikhozov (zav. - prof. V.M.Banshchikov)
Gosudarstvennogo nauchno-issledovatel'skogo instituta psikiatrii
Ministerstva zdravookhraneniya RSFSR.

(CEREBROVASCULAR DISEASE) (MENTAL ILLNESS)

VETSNER, A.M.

Mitigating therapeutic bloodletting in the cerebral form of hypertension. Trudy 1-go MMI 25:240-248 '63. (MIRA 17:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut psikiatrii Ministerstva zdravookhraneniya RSFSR (direktor - prof. D.D.Fedotov) i kafedra psikiatrii 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova (zav. kafedroy prof. V.M.Banshchikov).

VETSNER, V.Ye.

Conference of psychiatrists of the republics of Central Asia
and Kazakhstan. Zdrav. Kazakh. 21 no.11:75-77 '61.
(MIRA 15:7)

(PSYCHIATRY--CONGRESSES)

SERYAKOV, Ivan Maksimovich: Prinimali uchastiye: BEDAROV, G.; VETSRUMB, N.;
DOBROVOL'SKIY, V.; KAPLAN, S.; KOMZA, G.; KOROLEV, L.; KUZNETSOV, T.;
PETROV, V.; SUMAKOV, M.; SMOLYANINOV, N.; USHAKOV, I.; USHAKOV, G.;
ZAYCHIK, M.I., prof., doktor tekhn.nauk, nauchnyy red.; KOLOMIYSEVA,
O.I., red.; ROZEN, E.A., tekhn.red.

[The story of the tractor] Povest' o traktore. Moskva, Izd-vo
"Sovetskaya Rossiya," 1960. 318 p. (MIRA 13:12)
(Tractors)

VETSRUMB, S., inzh.

Projector made of a viewer. Nauka i zhizn' 29 no.3:92-93 Mr '62.
(Projectors) (MIRA 15:7)

CZECHOSLOVAKIA/Chemical Technology - Cellulose and Its
Derivatives. Paper.

H.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 56035

Author : Vetsler

Inst :

Title : Wood Pulp Cellulose.

Orig Pub : Papir a celuloza, 1957, 12, No 3, 67-68

Abstract : Production of wood pulp cellulose from leafy varieties
on Great Northern Paper (USA) plant.

Card 1/1

38

VETSRUMB, S., inzh.

Episcopo. Nauka i zhizn' 29 no.2:82-83 P '62. (MIRA 15:3)
(Lanterns)

VETSRUMB, S., inzh.

Photolaboratory in a box. Nauka i shisn' 29 no.9:104-105 S '62.
(MIRA 15:10)

(Photography—Equipment and supplies)

NOVAK, I.I.; VETTEGREN', V.I.

Effect of orientation on the crystallinity of capron. Vysokom. soed.
7 no.6:1027-1029 Je '65. (MIRA 18:9)

1. Fiziko-tekhnicheskiy institut imeni A.F.Ioffe AN SSSR, Leningrad.

ZHURKOV, S.N.; NOVAK, I.I.; LEVIN, B.Ya.; SAVITSKIY, A.V.; VETTEGREN', V.I.

Relation between the strength of a polymer and its molecular orientation. Vysokom.sped. 7 no.7:1203-1207 J1 '65.

(MIRA 18:8)

1. Fiziko-tekhnicheskii institut imeni Ioffe AN SSSR.

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gical process but also the destruction of the

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S/051/63/014/004/016/026
 0039/E420

AUTHORS: Vettegren', V.I., Novak, I.I.

TITLE: Calculation of the absorption of a convergent light beam in a plane-parallel plate

PERIODICAL: Optika i spektroskopiya, v.14, no.4, 1963, 545-552

TEXT: Expressions for the flux F and optical density D are derived. From these expressions are obtained numerical values of optical density D and D_{\perp} for different values of the ratio of the aperture to the refractive index N_2A/n (for N_2A/n , $A = 2.4$), dichroism k_{\parallel}/k_{\perp} and optical density k_d corresponding to absorption in a parallel beam. From known values of D and k_d and for different values of polarization of the electric vectors E_{\parallel} and E_{\perp} the deviation $\Delta D/k_d$ from the law of Lambert-Beer is calculated.

$$\frac{\Delta D}{k_d} \cdot 100\% = \frac{D - k_{\perp}}{k_d}$$

Values of D_{\parallel}/D_{\perp} , k_{\parallel}/k_{\perp} and $\frac{\Delta D}{k_d} \cdot 100\%$ for values of D

Card 1/2

N_2A/n from 0.428 to 0.857 are fully tabulated. This shows that the deviation depends strongly on k_{II}/k_I and $k_{II}d$. For $k_{II}/k_I = 0.2$ the value of $(\Delta D_{II})/(k_{II}d)$ is 100%.

Comparison with the results of other workers is made. There are 3 figures and 1 table.

SUBMITTED: June 9, 1962

Card 2/2

NOVAK, I.I.; VETTEGREN', V.I.

Molecular orientation in capron fibers studied by infrared spectroscopy. Vysokom. soed. 6 no.4:706-709 Ap '64.
(MIRA 17:6)

1. Fiziko-tekhnicheskiy institut imeni A.F. Ioffe AN SSSR.

VETTER, Ambrus, dr.

Anti-cancer services in the Somogy Region. Nepegysszegy 42
no.2:50-57 F '61.

1. Kozlemeny a Somogy megyei Tanacs VB. Onkologiai Gondozojabol.
(NEOPLASMS prev & control)

Journal of Chemical Physics, Vol. 25, No. 1, January 1956
M. J. Cantow, Jr., and J. H. Goldstein
The Journal of Chemical Physics, Vol. 25, No. 1, January 1956
The Journal of Chemical Physics, Vol. 25, No. 1, January 1956

and Stat. 0. Activities of Fe in alloys were calculated from
the relation $a_{Fe} = p_{Fe}/p_{Fe}^0$ where p_{Fe} and p_{Fe}^0 are the partial
pressures of Fe in the alloy and in the pure metal, respectively.

and entropies of mixing plotted against mole fraction of Mg
showed large deviations from ideality owing to strong polar
interactions and the existence of Mg^{2+} and Si^{4+} ions

21 ①

1ST AND 2ND LETTERS																																																																																																							
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<p>Microanalytical methods in the industrial laboratory. Application of the "micro Dumas" to substances of low nitrogen content. <i>Fp. VETTER. Mikrochemie 12, 102-8 (1922); cf. C. A. 26, 2888.</i>—The N content of the oils, etc., is very low so that some change in the micro Dumas method is necessary. The first possibility is increasing the wt. of sample from say 4 mg. to 40 and this necessitates an increase in the size of the combustion tube. Suitable changes are suggested for doing this. A second possibility is to make the azotometer so that it will read smaller vols. accurately. To this end, a new design of azotometer is suggested, with a filtering appliance but without stopcock. The diam. of the tube is reduced from about 3.6 mm. to about 1 mm.; consequently a small vol. of the gas occupies more space on the scale and when the stopcock is eliminated there is less danger of error in measuring a very small vol. W T H</p>																																																																																																							
ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																																																																							
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BELCHER, E.H.; COHEN, M.; DUDLEY, R.A.; PARKER, H.G.; TSIEN, K.C.; VETTER, H.

Progress in the use of isotopes and radiation sources in
medicine. Cas. lek. cesk. 104 no.19:100-104 14 My '65.

1. MAAE a WHO.

VETTER, G.

KOLMAN, E

p 4

16(1)

PHASE I BOOK EXPLOITATION SOV/1366

Istoriko-matematicheskiye issledovaniya, vyp. 11 (Research in Mathematical History, Nr 11) Moscow, Fizmatgiz, 1958. 792 p. 3,000 copies printed.

Eds. (Title page): Rytkin, G.F. and Yushkevich, A.P.; Ed. (Inside book): Konoplyankin, A.A.; Tech. Ed.: Murashova, N. Ya.

PURPOSE: This book is intended for mathematicians and others interested in the history of mathematics, and may serve as the basis for a suitable university text on the history of mathematics, thereby filling the most serious gap in Soviet mathematical literature.

COVERAGE: This book contains reports made by members of the section on the history of mathematics at the Third All-Union Mathematical Congress which discussed problems of the history of mathematics and various articles on the significance of the history of mathematics

Card 1/8

Vetter, G. (Prague). A Short Essay On the Development of Mathematics in Czech-dominated Areas Up to the Battle of Mlota Gora

461

VINTER, T.

"Nikolai Ivanovich Lobachevskii." p. 119. (Literatichno-iznadvovsana Roshla.
Vol. 31, No. 4, 1953, "Praga.")

SO: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress, March 1/54, Uncl.

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VETTERGREN, V.I. NOVAK, I.I.

Calculating the absorption of a convergent light beam in a
plane-parallel plate. Opt. i spektr. 14 no.4:545-552 Ap '63.
(MIRA 16:6)

(Spectrum, Infrared)

VEJTEPL, K.

VEJTEPL, K. R. Vachek and R. Smetana's Ceske svatske pisna zlidovele (Czech Songs Which Developed Into Folk Songs); a book review. p. 95. Professor Jiri Horak named academician. p. 101.

Vol. 5, no. 1, 1957
CESKOSLOVENSKA ETHNOGRAFIE
GEOGRAPHY & GEOLOGY
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

SHEVCHIK, F.; VETTERL', V.

Complex dielectric permeability of solutions in the range of centimeter waves. Biofizika 10 no.3:441-446 '65.

(MIRA 18:11)

1. Institut biofiziki AN Chekhoslovatskoy Sotsialisticheskoy Respubliki, Brno, Chekhoslovakiya. Submitted Oct. 7, 1964.

(MIRA 18:11)

"APPROVED FOR RELEASE: 09/01/2001

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2/0039/64/025/006/0346/0352

ACCESSION NR: AP4039422

AUTHOR: Vetterl, Vladimir (Graduate in physics, Candidate of sciences)

TITLE: Measurement of differential capacitance of an electrical double layer

SOURCE: Slaboproudy obzor, v. 25, no. 6, 1964, 346-352

TOPIC TAGS: electrical double layer, capacitance, differential capacitance, differential capacitance measurement, capacitor charge characteristic, mercury drop electrode, TESLA TM351 bridge, bridge circuit

ABSTRACT: The article describes a method for measuring the differential capacitance of an electric double layer formed on the surface of a mercury drop electrode. A method for adapting the TESLA TM351 bridge for this purpose is given and the equations for computing this differential capacitance by the measured values are derived. An analysis of the bridge balance moment exerts a basic influence on the measurement. The method described permits a measuring accuracy of 3% to be attained. The measurement results compare favorably with the experimental errors contained in the literature. The findings were compared with the results of D. C. Grahame and R. Parsons ("Components of Charge and Potential in

Card 11/2

ACCESSION NR: AP4039422

the Inner Region of the Electrical Double Layer: Aqueous Potassium Chloride Solutions in Contact with Mercury at 25C." Journ. Am. Chem. Soc., 83, (1961), 1291-1296). The lower values in the anode branches of the curve plotted for a KCl solution capacitance curve are probably caused by an imperfect removal of recrystallization impurities. The method was used for analyzing the absorption of a surface with an electric charging of the molecules. This fact is important from a biological point of view. Original article has: 11 figures and 30 equations.

ASSOCIATION: Biofyzikalni ustav CSAV, Brno (Biophysics Institute CSAV)

SUBMITTED: 20Jan64

DATE ACQ: 19Jun64

ENCL: 00

SUB CODE: EE

NO REF SOV: 000

OTHER: 011

Card

2/2

VETTERL, Vladimir

Use of the Q-meter in conductometric measurements on high frequencies. Chem listy 57 no.6:636-638 Je '63.

1. Biofysikalni ustav, Ceskoslovenska akademie ved, Brno.

VETTERL, Vladimir

Simple circuit for frequency measurement. Sdel tech 11 no.10:
373-374 0 '63.

CZECHOSLOVAKIA

VETTERL, V

Biophysical Institute, Czechoslovak Academy of
Sciences (Biophysikalisches Institut, Tschecho-
slowakische Akademie der Wissenschaften), Brno

Prague, Collection of Czechoslovak Chemical Communications,
No 5, May 1966, pp 2105-2126

"Differential capacity of a double electrode layer
in the presence of some purine and pyrimidine deriva-
tives."

VETTSLER, Zhan [Wetzler, Jean]

Looking after the workers' interests is the concern of trade
unions. Vsem. prof. dvizh. no.1:25-28 Ja '57. (MIRA 14:9)
(Bulgaria--Trade unions) (Labor and laboring classes)

BC

Chemical treatment of winter wheat seed to increase its frost-resistance. A. VETUCHOVA (Compt. rend. Acad. Sci. U.R.S.S., 1929, 24, 606-608).—Effects of numerous inorg. salts on the stability of plant colloids are examined. Treatment of seeds with 0.01—0.02% salts or -hydroxides of alkali metals increased the frost-resistance of plants obtained from them.

A. G. P.

B-3-1

ANTOSHIN, Ye.V.

34

WEEK 7: BOOK DEPOSITION

0007/12362

Spetsializirovannaya mashinostroitel'naya zavoda v Sverdlskoy oblasti.
t. 2: Tekhnologiya remonta (Handbook for Mechanics of Machine-Building
Plants in Two Volumes. Vol. 2: Technology of Repair Operations) Moscow,
Mashin. 1956, VII, 1019 p. 40,000 copies printed.

Shoy, M.: *Yu.S. Borlsov, Engineer*; Ed.: E.S. Troiya, Engineer; Tech. M.: T.Y. Sokolov; Eds. of Set: Yu.S. Borlsov, Engineer, A.Y. Vladimirov, Doctor of Technical Sciences, and R.A. Bozika, Candidate of Technical Sciences; Moscow: M. for Reference Literature (Mashizh); V.Y. Krylov, Engineer.

REMARK: This handbook is intended for personnel responsible for repair and maintenance operations in a military-manufacturing plant.

CONTRACTS. The handbook contains information pertinent to the organization of, and the conduct of, maintenance work, including the organization of maintenance work, repair and maintenance systems, design-preparation of maintenance work, and economic of maintenance. Information on scientific research organizations and plants participating in preparation of this volume is included in the coverage of Volume 1 (DOW74599). There are no references. Basic topics covered include: maintenance and repair of aircraft in maintenance operations; maintenance of aircraft; maintenance of parts in maintenance operations; maintenance of landing gear; maintenance of engines; maintenance of propellers; maintenance of aircraft parts for provision; basic bench and assembly work; maintenance of power equipment; and maintenance of foundations.

Parts made of metal powders (Saklinsky, V.V., Engineer)

天

Use of parts made of metal powders in maintenance of equipment

THE UNIVERSITY OF CHICAGO

TECHNOLOGY OF MANUFACTURING PARTS FROM METAL POWDERS

See and manufacturers of nonmetallic parts and products in maintenance

INVESTING IN

Parts made from plastic laminated wood (Bakyt, M.A., Engineer)

Flattie overland ways (Lumpkins, A.S., Candidate of Technical Sciences)
Machine construction of steel and aluminum bolts

RESEARCH MEMBERS, PHYSICS DIVISION, AND PARTICIPATING INSTITUTIONS: L. B. BERNARDI and RETRIEVAL-JACK BARNES

Protective rubber sealings
(Dortsev, Ya. S.; Engineer)

1. The first step is to identify the key components of the system. This involves understanding the inputs, outputs, and internal processes. For example, in a manufacturing system, the inputs might be raw materials and labor, the outputs might be finished products, and the internal processes might involve assembly and quality control.

II. Metalworking, Boasting and Ply-Cutting Operations in

Best suit assembly 100% (1990-1991) 1.4. (1990-1991)

[illegible][illegible]

Chileans and escape chileanos

VETUKHOV, Ye.A., kand. tekhn. nauk

Distribution of freight yards in junctions. Zhel. dor. transp. 46
no.9:63-64 S '64.

VETUKHNOVSKAYA, Yu.N.; KUZ'MIN, A.D.

Some discrete radio emission sources at a wavelength of 9.6 cm.
Trudy Fiz. inst. 28:155-166 '65. (MIRA 18:7)

... observation in considerable detail and presents the supplementary results (list

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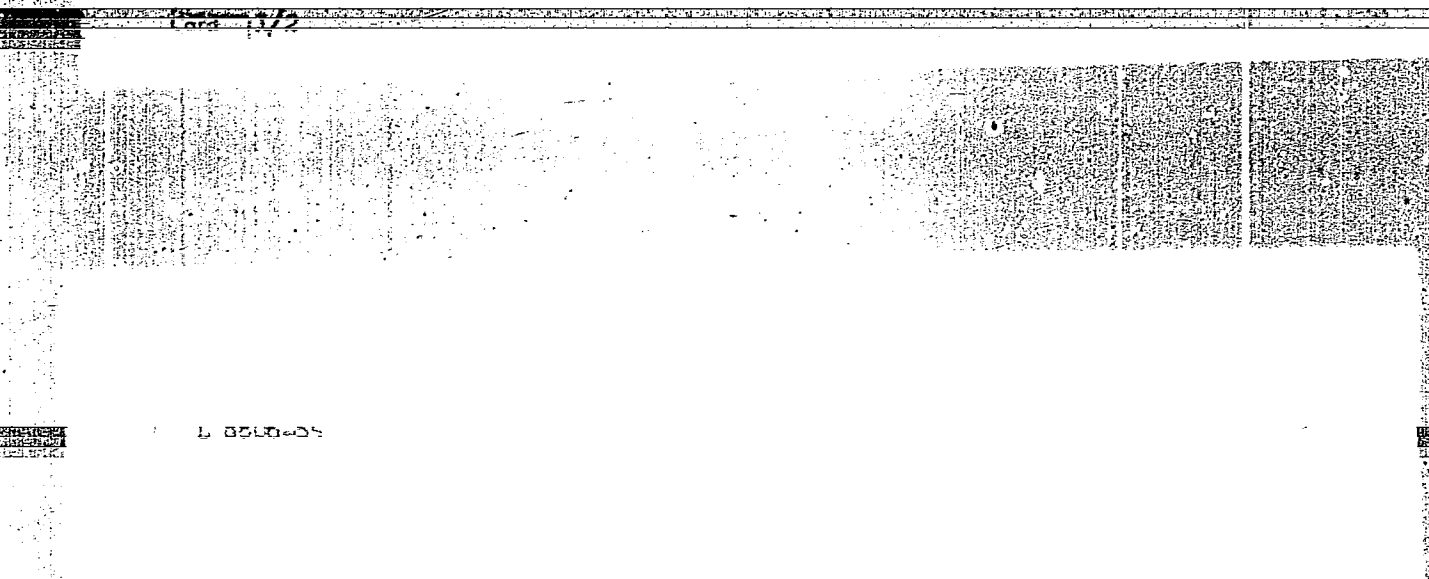
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ASSOCIATION: DOME

APPROVED FOR RELEASE: 09/01/2001

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VETUKHNOVSKIY, F. Ya.

Coverings for a graph provided by a system of neighborhoods
of its vertices. Dokl. AN SSSR 158 no.1:21-24 3-0 '64
(MIRA 17:8)

1. Predstavleno akademikom P.S. Novikovym.

AUTHOR: Vetukhnovskiy, F.F. (Moscow) SOV/20-123-3-1/54

TITLE: On the Number of Undecomposable Nets and Some of Their Properties (O chisle nerazlozhimyykh setey i nekotorykh ikh svoystvakh)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 3, pp 391 - 394 (USSR)

ABSTRACT: The paper starts from the investigations of Trakhtenbrot papers [Ref 1,2], in which it is shown that every double-pole net is a superposition of undecomposable nets. The possibility is investigated to estimate from below the number $\phi(n)$ of the nonisomorphic, undecomposable nets with n edges. A class consisting of $\phi'(n)$ nonisomorphic, undecomposable nets is effectively constructed, where for sufficiently large n it holds:

$$\phi'(n) > \left(\frac{n}{2e \ln n} \right)^n. \text{ Here it is } \phi(n) \gg \phi'(n).$$

Furthermore two criteria for the undecomposability of nets are given. However, the criteria are applicable only to special,

Card 1/2

On the Number of Undecomposable Nets and Some
of Their Properties

SOV/20-123-3-1/54

constructively given nets.

There are 4 figures and 6 references, 5 of which are Soviet
and 1 is American.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova
(Moscow State University imeni M.V. Lomonosov)

PRESENTED: June 28, 1958, by M.V. Keldysh, Academician

SUBMITTED: June 24, 1958

Card 2/2

VETUKHNOVSKAYA, Yu.N.; KUZ'MIN, A.D.; KUTUZA, B.G.; LOSOVSKIY, B.Ya.;
SALOMONOVICH, A.Ye.

Measuring the radio emission spectrum of the night side of Venus
in the microwave band. Izv. vys. ucheb. zav.; radiofiz. 6 no.5:
1054-1056 '63. (MIRA 16:12)

1. Fizicheskiy institut imeni Lebedeva AN SSSR.

VETUKHNOVSKIY, F.Ya.

Coverings and minimum coverings of a graph by a system of
neighborhoods of its vertices. Disk. anal. no.3:3-24 '64.
(MIRA 18:9)

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S/020/62/142/001/007/021
B104/B102

AUTHOR: Vetukhnovskiy, F. Ya.

TITLE: Evaluation of the number of plane graphs

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 1, 1962, 50-53

TEXT: In this topological investigation of the properties of grids and their graphs, the conception of "planar graph" is defined first. A graph is planar when it has a realization lying in a plane. This plane is called realization plane. In a detailed study it is shown that the number G_n of coupled nonisomorphous graphs with n edges is evaluated with $C_1^n < G_n < C_2^n$, where C_1 and C_2 are constants. This inequality permits setting up asymptotic expressions of the complexity of a realization of functions of algebraic logic with plane circuits. Problems are investigated, which are connected with the number of plane realization of a graph. E. D. Stotskiy is mentioned. There are 4 figures and 6 references: 2 Soviet and 4 non-Soviet. The two references to English-language publications read as follows: H. Whitney, Trans. Am. Math. Soc., 34, 2, 339 (1932);

Card 1/2

32811

S/020/62/142/001/007/021
B104/B102

Evaluation of the number ...

J. Riordan, C. E. Shannon, J. Math. Phys., 21, no. 2, 83 (1942).

PRESENTED: July 26, 1961, by A. I. Berg, Academician

SUBMITTED: June 30, 1961

Card 2/2

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.

New paint equipment (survey of foreign literature).
Lakokras.mat.i ikh prim. no.1:77-80 '63. (MIRA 16:2)
(Paint machinery)

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; USHAKOVA, V.I.

Improving the methods of the preparation of metal surfaces for
painting. Lakokras.mat.i ikh prim. no.6:44-49 '62. (MIRA 16:1)
(Protective coatings) (Metals--Finishing)

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; RAKHLINA, Z.V.

Improved painting equipment and methods; review of foreign
literature. Lakokras. mat. i ikh prim. no.6:81-86 '61.
(MIRA 15:3)
(Painting, Industrial—Equipment and supplies)

DUBROVA, B.M.; BURENKOVA, N.V.; VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.;
RAKHLINA, Z.V.

Foreign science and technology. Lakokras. mat. 1 ikh prim.
no.5:81-86 '63. (MIRA 16:11)

IVANOV, V.I.; VLADYCHINA, Ye.N.; VETUKHNOVSKIY, Z.B.

Tasks of the Scientific Research Institute of the technology of
Lacquer and Paint Application (NIITLP) as seen in the light of
the resolutions of the December (1963) Plenum of the Central
Committee of the CPSU. Lakokras.mat. 1 ikh prim. no.2:1-2 '64.
(MIRA 17:4)

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; RAKHLINA, Z.V.

New methods and devices for testing protective coatings.

Lakokras.mat. 1 ikh prim. no.2:84-87 '64.

(MIRA 17:4)

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.

Preparation of surface and industrial painting in France. Lakokras.
mat. i ikh prim. no.5:85-86 '61. (MIRA 15:3)
(France--Painting, Industrial)

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; RAKHLINA, Z.V.

Equipment for painting articles by the flow coating method.
Lakokras.mat. i ikh prim. no.2:81-88 '60. (MIRA 14:4)
(Painting, Industrial—Equipment and supplies)

S/081/61/000/021/087/094
B107/B147

AUTHORS: Vetukhnovskiy, Z. B., Darazhio, G. N., Rakhlina, Z. V.

TITLE: New methods and devices for testing varnish coatings and materials (Survey of foreign publications)

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 460, abstract 21P143 (Lakokrasochn. materialy i ikh primeneniye, no. 1, 1961, 79-83)

TEXT: This is a brief description of new methods and devices for testing varnish coatings and materials basing on a survey of foreign publications. 9 references. [Abstracter's note: Complete translation.]

✓

Card 1/1

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; RAKHLINA, Z.V.

New methods and instruments for testing paint coatings and materials.
Lakokras.mat.1 ikh prim. no.1:79-83 '61. (MIRA 14:4)
(Paint materials—Testing)

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; RAKHLINA, Z.V.

Modernization of industrial painting equipment and methods of painting. Lakokras.mat. i ikh prim. no.2:77-86 '61. (MIRA 14:4)

(Painting, Industrial—Equipment and supplies)

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; RAKHLINA, Z.V.

Improvement of painting equipment and painting methods; review
of foreign literature. Lakokras.mat.1 ikh prim. no.3:87-93 '62.
(MIRA 15:7)

(Paint machinery)

(Painting, Industrial)

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; USHAKOVA, V.I.

Information on the improved methods for industrial painting of
articles and on painting equipment; literary review. Lakokras.
mat. 1 ikh prim. no.4:69-72 '63. (MIRA 16:10)

VETUKHNOVSKIY, Z.B.; MALOVITSKIY, V.S.

Economic effectiveness of using new paint materials in the
furniture industry. Lakokras. mat. i ikh. prim. no.4:57-60
'61. (MIRA 16:7)

(Furniture industry) (Paint materials)